**Homework 22** Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Mixed Review** Period:\_\_\_\_\_Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| 1. Solve for a.   a2+ | 2. Are these lines parallel, perpendicular, or neither?  Line 1: (1, 0), (7, 4)  Line 2: (7, 0), (3, 6) | | 3. Identify the slope of the line: |
| 4. How far apart are the values that satisfy the equation  23 = |7a + 2| ? | | 5. On a number line, point *X* is located at 5, *Y* is located at –2, and *Z* is located at –10. How much longer is *XZ* than *YZ*? | |
| 6. In the figure below, JML is a straight line. If , find *.* | | 7. Solve for x: | |
| 8. Graph 2x + 6y = 12 | 9. How many millimeters long is the diameter of a circle whose area is 49 mm2? | | 10. Which of the following have the steepest slope? |
| 11. What is the measure, in degrees, of the angle between the hands of a standard clock and exactly 2 o’clock? | 12. On a real number line, what is the distance in coordinate units between points *R* and *Q* if *R* has a coordinate of -12 and *Q* has a coordinate of 6? | | 13. What is the perimeter of a square with a side length of 10 inches? |